

### **ABSTRACT OF THE DISCLOSURE**

In a method to produce a volume data set, the imaged surface of a subject imaged in a first volume data set is segmented. The first volume data set then is transformed into a second volume data set, such that the segmented imaged surface is transformed into a plane. From the second volume data set, a third volume data set is produced by filtering the second volume data set such that structures not of interest of the first subject, imaged in the second volume data set, are filtered out based on features associated with structures not of interest and based on the expected removals from the surface of the structures not of interest, and structures of interest of the first subject, imaged in the second volume data set, remain based on features associated with structures of interest, and based on the expected removals of the structures not of interest from the surface.

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